

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

5 MAY 1977

## University of Alberta Health Sciences Centre

In December 1975, the University of Alberta Hospital Board and the University of Alberta made a proposal to the Alberta government. The proposal called for the transformation of the University Hospital into the University of Alberta Health Sciences Centre. The Alberta government, in early October 1976, agreed to provide \$86.4 million (1975-dollars) for the construction of the first phase of the proposed two-phase project. Initial construction is about to begin, and it is estimated that the first phase of the new complex will be completed within the next four or five years.

The provincial government has determined that responsibility for the planning, design, and construction of this joint venture be that of the University of Alberta Hospital Board, and a project committee has been established with representation from the University, the Faculty of Medicine, and the University of Alberta Hospital to coordinate the planning of the Centre.

The project director for the Health Sciences Centre is Victor Jackson (Vice-President, Planning) of the University of Alberta Hospital, and the prime consultants are UHSC Architects Limited; Groves, Hodgson, Palenstein Architects Limited; Wood and Gardener Architects Limited; and Zeidler Partnership, Architects.

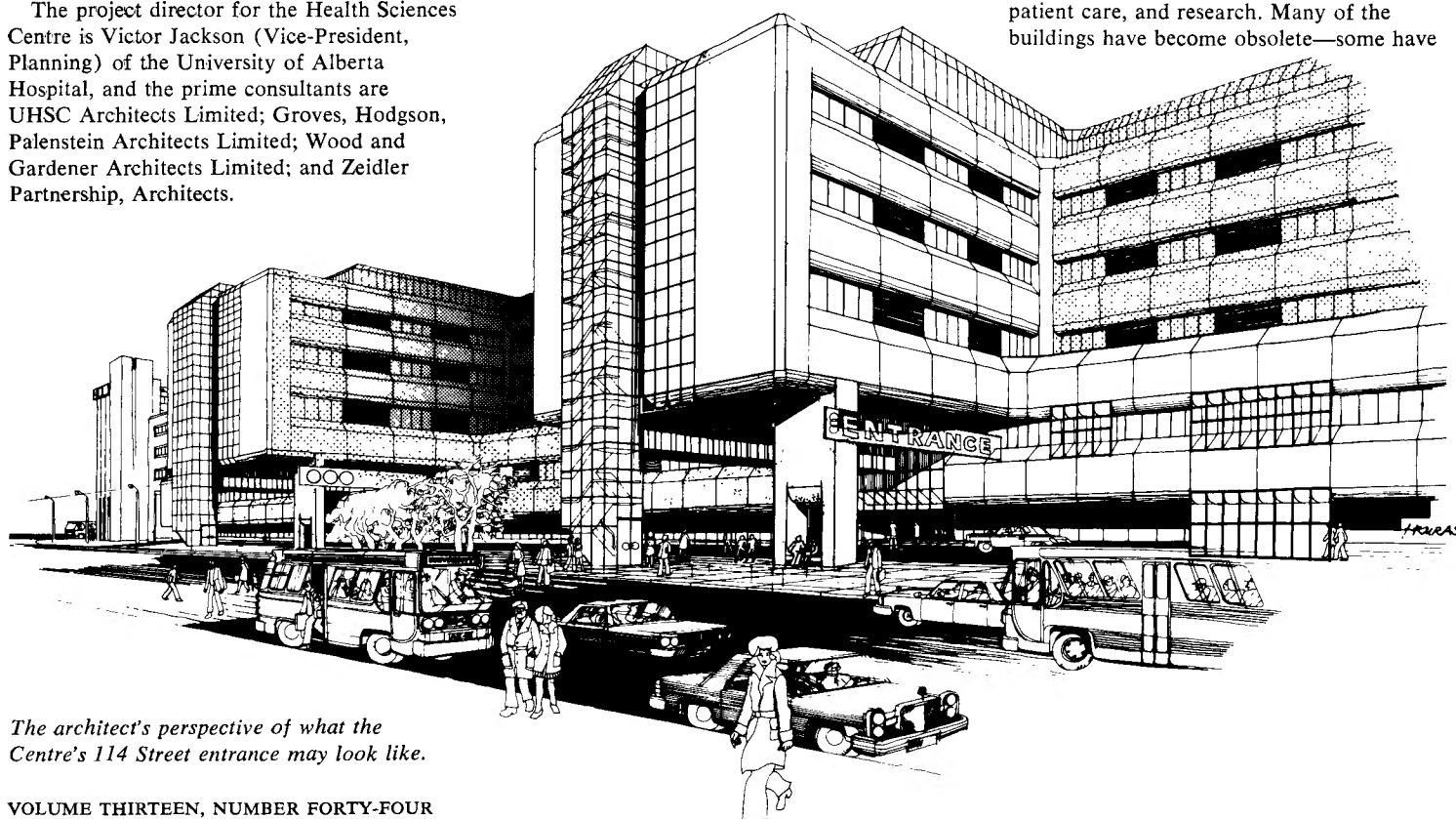
There are two closely related reasons for the construction of a Health Sciences Centre. One reason, of course, is the desire to improve the quality of health care, teaching, and research; the other is, quite simply, the physical need for new premises.

Over the past few years in the medical and health sciences, a trend has developed toward treating more people on an out-patient basis, reducing the amount of space and personnel needed for in-hospital acute-care services and freeing hospital staff from caring for patients who needn't really be in hospital. In the new Health Sciences Centre, the number of short-term, acute-care beds will be reduced, and the facilities for handling out-patients will be increased. It is projected that the number of out-patients seen in a year will increase from somewhere around 75,000 to 225,000. (Another innovation that is related to this is

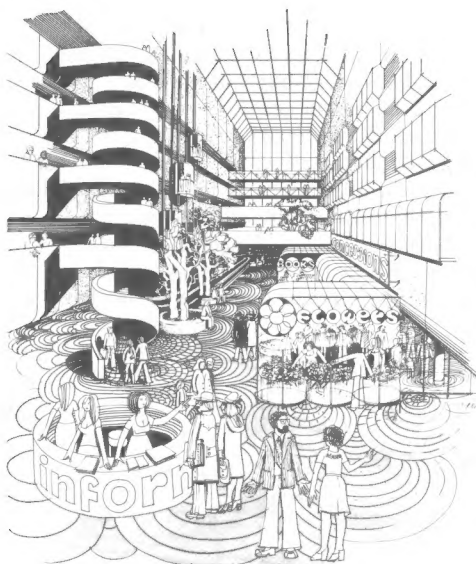
the hostel plan. The current Interns' Residence will be converted to a hostel, providing motel-like accommodation with minimal care available for persons needing to stay over a few days at the hospital to undergo tests, for example.)

The emphasis on ambulatory patient care at the Health Sciences Centre will serve as a model, it is hoped, for local and community health centres and programs throughout the province. The new Centre will provide a proving ground for various out-patient care techniques and services in the province.

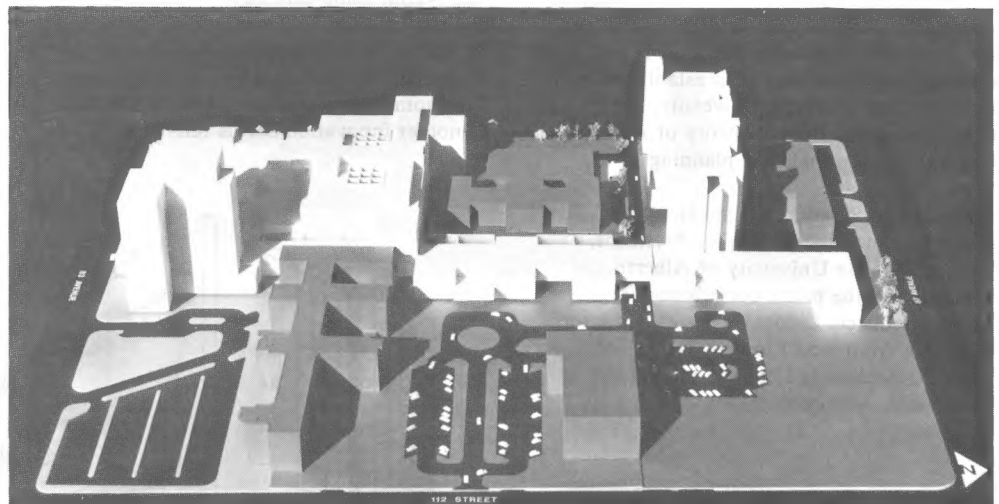
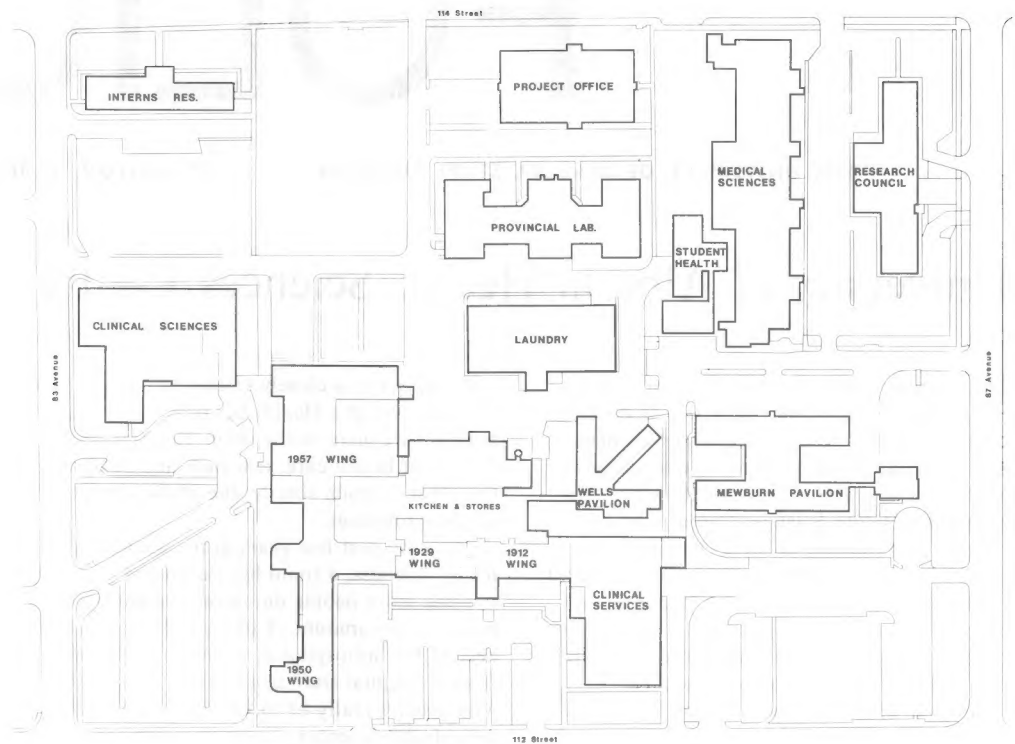
The proposal for the new University of Alberta Health Sciences Centre was not put forward, however, simply as the means to give Alberta the lead in health care and health care research in Canada, though it may eventually do that. There was a pressing need for new facilities. Many of the existing facilities at the University Hospital are inadequate from the standpoints of medical education, patient care, and research. Many of the buildings have become obsolete—some have



*The architect's perspective of what the Centre's 114 Street entrance may look like.*

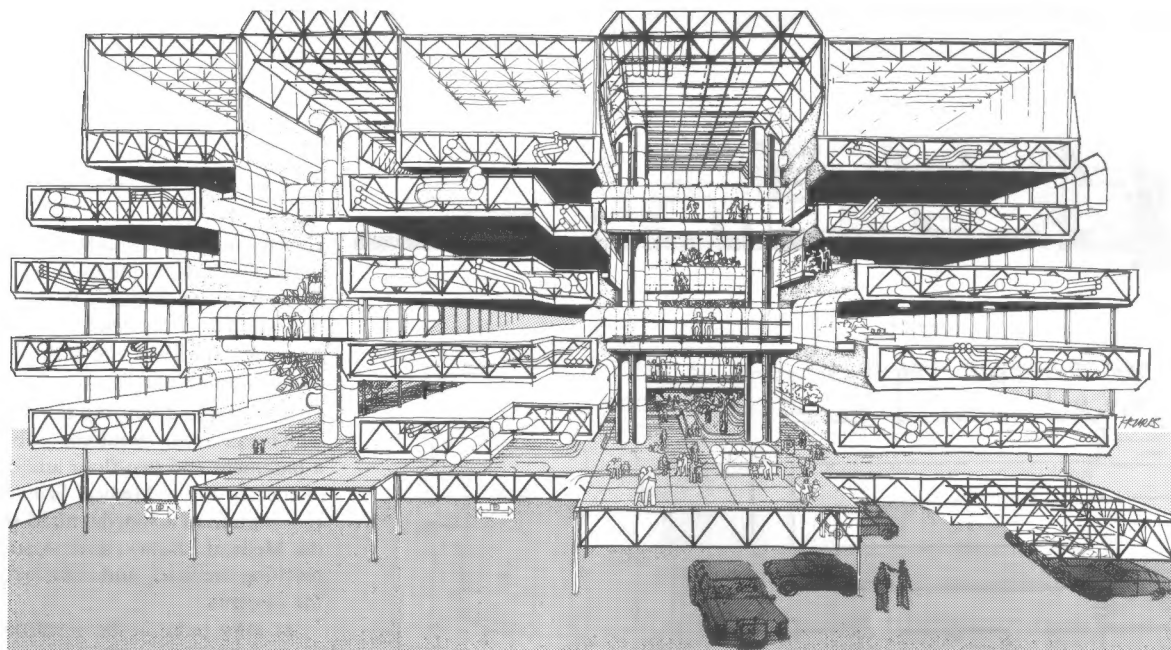


One thing planners wanted to achieve in the Health Sciences Centre was an environment that would be pleasant and attractive to both staff and patients. The central mall, shown in the rough sketch above, is one of the proposed features of the Centre.



Above, a plan view of the current University of Alberta Hospital site shows how the facilities are now spread all over the site. The compact planning of the new Centre will remedy the lack of centralized services and will allow for more effective organization of health care, teaching, and research functions. So far, the provincial government has approved funding only for Phase I of the proposed two-phase project. The model above shows the completion of Phase I. The Medical Sciences Building and the Clinical Sciences Building will be retained as part of the Centre and will be functionally linked by the buildings of the Centre's core. Some in-patient and other treatment facilities will remain in the 1950 and the 1957 Wings, but a building to house these will be constructed in Phase II when funds are granted.

Many of the University Hospital's buildings are outmoded and some have been condemned; renovation would be almost as expensive as new construction. There is little worry that the Centre's new buildings will become obsolete—they have a built-in adaptability feature that will give them a life-span of somewhere around one hundred years. This feature is the interstitial space, incorporated in the great floor-to-floor height and housing all the electrical and mechanical systems. These systems can be altered and updated every twenty years or so as the needs of the Centre require, and this can be accomplished without disrupting the functions of the Centre. The interstitial spaces are shown in the sketch above right.



been condemned outright—and many others would soon require extensive renovation. On top of this, there is a lack of centralized services in the present facilities, and many health care experts feel that this seriously impairs the Hospital's efficiency and economy. The new Health Sciences Centre is designed to remedy these problems.

#### **The proposal**

In a report submitted to the provincial government in April 1974, Graham Clarkson outlined the need for a cohesive centre to be built on the existing site of the University of Alberta Hospital, providing for the major functions of health care, teaching, and research in an environment that is both attractive and suitable to the needs of patients, staff, and students. The current proposal, approved by the Alberta government, maintains the spirit of Dr. Clarkson's report.

There are a number of changes, however, in the methods of implementing the recommendations and achieving the goals set out by Dr. Clarkson. The Board of the University of Alberta Hospital had to examine the possibility of renovating the existing buildings, explore the costs and problems of erecting new buildings with increased life-spans, and solve the problem of what to do with the Clinical Sciences Building. (Incidentally, it is interesting to note that of the many consultants and firms involved in planning the project, 83 percent are Albertan while only 3 percent are from outside Canada.)

**Clinical Sciences Building.** Though this building is only seven years old, it has numerous faults in both planning and construction; it does, however, provide 260,972 building gross square feet of space for clinically oriented teaching programs in the Faculty of Medicine. Thus, what to do with it was a major consideration in the planning of the Centre. This building will be retained as part of the Centre: necessary repairs will be made, and, once the patient-care facilities are

relocated in other parts of the Centre, the remaining facilities in the Clinical Sciences Building will be enhanced by direct links to the existing Medical Sciences Building and the buildings of the Centre's core.

**Renovations or new buildings?** The feasibility of renovating certain Hospital buildings—the Clinical Services Wing and the 1950 and 1957 Wings—was considered carefully. The Clinical Services Wing, completed in 1961, houses such things as the Operating Rooms, the Departments of Radiology and Clinical Laboratories, the Emergency Department, the Out-patient Clinics, and the Admitting Department. Right now, the mechanical and electrical systems of the building are stretched beyond their designed limits and must be replaced within four years.

This could not be undertaken, though, without completely disrupting the building's services, and renovation would take approximately eighteen months. During that time there would be no adequate accommodation to house the key hospital diagnostic and treatment facilities. With the impracticality of renovation, relocation of the Wing's functions and facilities in new buildings of the Centre has been planned.

The 1950 and 1957 Wings of the Hospital require the installation of air-conditioning and restructuring of certain facilities to conform to present-day standards and to allow for adequate services. These renovations would cost approximately \$69 per square foot for the 1950 Wing and approximately \$65 per square foot for the 1957 Wing. New construction recommended by the planners would cost only about \$75 per square foot. (These estimates are in 1975-dollars.) The choice is obvious.

Since renovation of the Wings would achieve a life-span only about one-quarter that of the proposed new buildings, renovation was ruled out. Facilities located in the Clinical Services Wing will be relocated in the first phase of construction; in-patient

accommodation in the 1950 and 1957 Wings will be replaced by second-phase construction.

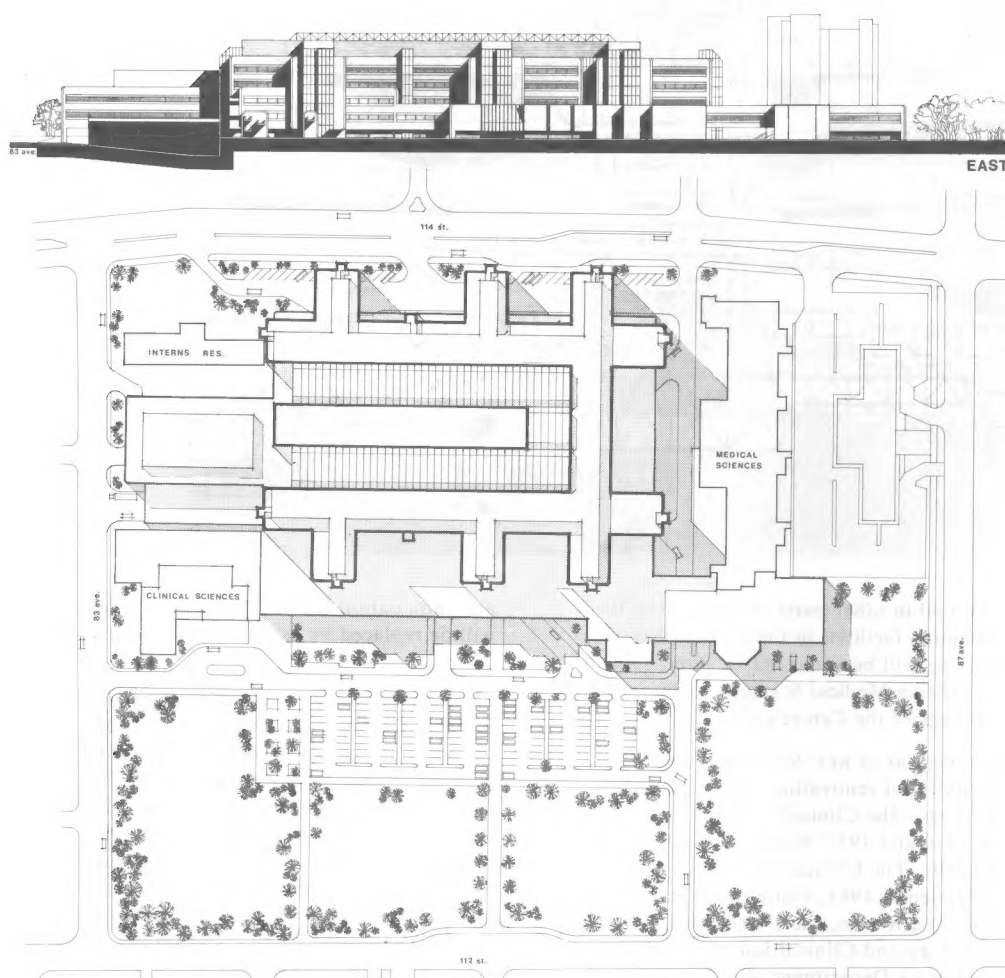
**What kind of new buildings?** The planning team had to ensure that the Health Sciences Centre had buildings with three qualities: an increased life-span, an ability to respond to change, and an acceptable cost. The Centre's buildings, therefore, will have a floor-to-floor height of eighteen feet to incorporate an interstitial, walk-in space, housing all mechanical and electrical services and systems. The systems can be modified or replaced with little or no effect on the activities of the floors above and below. In addition, the new buildings will be organized on a uniform modular basis that provides maximum floor area at the most acceptable costs. Each module will have a span of 19.2 metres by 9.6 metres. (62.5 feet by 31.5 feet).

The life-span achieved by the interstitial space and module systems will be in the range of one hundred years. Permanent structural elements—columns, floors, external walls—will require very little attention, of course; the mechanical and electrical systems can be replaced every twenty years or so (as the need arises) without disrupting the operation of the Centre as a whole.

#### **The plan**

To ensure full operation of the Hospital and other facilities on the present site during construction, a phase construction plan will be used. Older buildings will remain in operation until new structures can replace them. As each unit of new construction is completed, areas of the existing Hospital made vacant by relocation will be demolished to make way for yet another building.

**Phase I, Stage 1.** This will be constructed west of the Hospital's 1957 Wing. It will consist of a basement and five floors, provide over 595,000 square feet of space, and house hospital service facilities, emergency, administration, ambulatory services, radiology and clinical laboratories, the surgical suite,



*The elevation, looking at the Centre from 112 Street, gives a rough idea of the exterior shape of the Centre's new buildings. When Phase II of the project is completed, the overall site will look as it does in the model and plan view above. The Provincial Laboratory and the Butler Building, behind the Medical Sciences Building, will have been demolished to make way for the construction of a building to house the services still located in the 1950 and 1957 Wings of the old Hospital at the end of Phase I. With the economical use of available land, only about one-half of the existing site will be required for the new Centre.*

case rooms, and a number of new in-patient units. The new buildings will house those facilities currently in the Clinical Services Wing, the Mewburn and Wells Pavilions, the 1912 and 1929 Wings, and the Kitchen and Stores areas.

*Phase I, Stage 2.* During this stage, which can occur simultaneously with Stage 1, a basement and two-floor addition will be connected to the Medical Sciences Building. It will contain a four-hundred-seat auditorium, the Medical Library, audio-visual and central teaching facilities, and other accommodations for students.

At some point in the construction of Phase I, the Interns' Residence will be converted to a hostel accommodation for about one hundred patients.

When Stages 1 and 2 are completed, the Mewburn and Wells Pavilions, the 1912 and 1929 Wings, the Kitchen and Stores areas, and the University Health Service areas will be demolished. The Laundry, moved to an off-site location, will also be demolished at this time.

*Phase I, Stage 3.* When construction and demolition scheduled for Stages 1 and 2 is completed, Stage 3 will begin. Ambulatory (out-patient) care clinics and teaching facilities will be built; these will consist of a basement and two floors connecting the Medical Sciences Building with the Clinical Sciences Building, the 1950 and 1957 Wings, and the building completed in Stage 1. Upon completion of Phase I, some three hundred in-patient beds will be housed in new buildings; the rest will remain in the 1950 and 1957 Wings.

*Phase II.* When the Alberta government approves funding for Phase II, which they have approved in principle, the Provincial Laboratory will be moved to the Stage 1 building; the old Provincial Lab and the Butler Building, behind the Medical Sciences Building, will then be demolished to make way for the implementation of the rest of Phase II. Construction in this Phase will provide facilities to house the treatment services and in-patient beds still located in the 1950 and 1957 Wings. This new building will be located west of the buildings completed in Stage 3 of Phase I. It will provide some 478,410 square feet of floor area with floor levels matching those of buildings in Phase I. When this construction is completed, all remaining buildings of the present Hospital can then be vacated and demolished.

With the compact planning of the Health Sciences Centre, only about one-half of the present site will be taken up by the Centre's buildings. The use of the remaining ten acres has not been determined, but future development is open-ended.



## SENATE

*Senate held its regular meeting on Friday, 29 April. The following items were among those considered.*

### Emil Skarin Memorial Fund

Senate's Emil Skarin Memorial Fund Committee announced the award of grants to two literary projects. Grants of \$2,500 were made to John Orrell of the Department of English and to John Baxter, Sessional Lecturer in the Department of English. Dr. Orrell and the University of Alberta Press will publish a facsimile edition of a rare and out-of-print book by John Sandilands entitled *The Western Canadian Dictionary and Phrase Book*. John Baxter is the editor-in-chief of a periodical, *The Compass*, which he intends will feature articles and reviews from a variety of disciplines in the humanities and will reflect major issues in the social and political life of Canada.

### Honorary Degrees Committee

Senate's Honorary Degrees Committee announced that three honorary degrees will be awarded at Spring Convocation: Leone McGregor Hellstedt, first graduate of the Faculty of Medicine, will receive an Honorary Doctor of Science; Harold A. MacNeil, Superintendent of the Edmonton Separate School Board, will receive an Honorary Doctor of Laws; and Frank O'Sullivan, a long-time key figure in construction and development in Alberta, will receive an Honorary Doctor of Laws.

### The University—Toward a Statement of Purpose

The major part of the meeting, however, was devoted to the theme "The University—toward a statement of purpose." The goal of the meeting was to "enquire into the perceptions of members of the interested public as to the nature of the University." It was hoped that the meeting would be a first step toward answering such questions as "What should the University be? What is it now, and where is it going? What are its goals and roles in the foreseeable future?" Since the meeting was essentially to "examine the 'public mind'" and, as Chancellor Ron Dalby said, to "reach out further into the community" so as to "clarify objectives and increase self-consciousness," a number of members of the interested public were invited to speak to Senate about what they thought of the University and its role.

One assessment of the University continually arose: all the speakers felt that it must strive for better communication with the public. The Reverend Ian Macmillan of St. Paul's United Church said that there was a "need to let the general public know what the University does" and that the University "must use the media" more. He said that "the University has cut itself off

from the rest of the community." Lowell Williams, Director of Career Development for the Association of Professional Engineers, Geologists, and Geophysicists, pointed out that the public often wants to know what it is that university graduates actually know. Gerry Fullarton, Prairie Industrial Marketing Manager for Imperial Oil, stated that the business community often feels that the University is too critical of the free-enterprise system and is not sensitive enough to the needs of business. Les Young, MLA for Edmonton Jasper Place, said that he had not been approached by any sort of lobby from any advanced education institutions during his time of office; this indicated, he said, a "major breakdown in communication and understanding" between the institution and the Legislative Assembly.

Many Senate members agreed that there are problems. Jean Forest, for example, said that there had been a "breakdown of community relations" and that "the manner in which the University has presented its image" was a problem. All Senate members agreed, however, that inviting members of the public to speak to the University was a step toward strengthening relations with the community.

Ian Macmillan was the first guest to speak. He stressed that the discussion of the role of the University was of "tremendous importance," and said the university in general "is not a manpower centre; it is a place where people are educated." The University should not necessarily train people for a job, but rather should "lead people out in active ways of creating, responding." The University, however, does not make this role clear, and many students are often confused about what they come to university for. Mr. Macmillan added that the University no longer seems to be a place to get an education in his sense: during the general discussion he remarked he had begun to "hear the sound of cash registers over the sheepskin."

Lowell Williams was the next to speak. Dr. Williams said that he thought the University was certain of its objectives and purpose and that society was fairly certain of the role of the University: to produce graduates. What is unclear, he thought, is the quality of the graduates the University produces. Looking at the University as a system, Dr. Williams claimed that "the quality and nature of the output is unclear." To remedy this situation, he suggested that the University adopt some sort of "quality control system" to assess the quality of the University's product. Right now, he said, the University relies on "social indicators of quality" to convince the public of the quality of the graduates; it tells the public about the quality of the staff, the sophistication of the laboratories, equipment, teaching facilities, and

buildings. But this does not tell the public what the students (or "product" in Dr. Williams's words) finally know. (Many Senate members took exception to Dr. Williams's analogy and choice of words: June Sheppard said that to her and to many others words like "product" and "output" were "machine words" that lacked human quality: Mr. Macmillan, at the completion of the general discussion, asked that the University never call its graduates "products.")

After Dr. Williams's presentation, Mary Dalla Lana, a recent graduate of the Faculty of Law, spoke to Senate as a mature student. To her mind the University should "return to teaching as [its] primary function." She felt that research had supplanted teaching in importance and that the University must reassess its priorities in this regard. She also said that senior and distinguished professors should be more available to undergraduate students to challenge them; she herself found the University "a demanding as well as an enriching place" and felt it "a crime to let [students] go through University without taxing them."

She also felt that the University was becoming confused in its goals because "instead of being a community of scholars, it has become a corporation." Mrs. Dalla Lana felt that the University should realize that it is only one part of the educational system and that it should not try to be all things to all people.

Gerry Fullarton spoke to Senate on what he believes are a few of the ways the business community sees the University. He began by saying that many in the business community felt the University to be a source of too much criticism of the marketplace economy. Business often wonders why the University could not also be a source of greater understanding of the free-enterprise economy. He added that business often feels the University should take a more active role in providing training for managers and leaders in the economy and that it should help to educate people to cope with and understand the rapid cultural changes that the economy creates for society. In essence, he said, the business community wishes the University would make a more positive and supportive contribution to the business sector. (During the general discussion, Senate member Neil Reimer stated that as he saw it, the role of the University was to be "a critic, regardless of what the system is," that it has a "responsibility to be critical." Mr. Fullarton replied that he was not advocating that the University become an apologist for free enterprise, but rather that he wanted Senate to realize that the business community often sees the University as being unnecessarily negative toward business.)

Klaus Weiher, owner of Northern Landscape

Project Management Limited, noted that over the years he has employed many University students, and he has found that many of them are confused about why they went to University and about what benefit it was; he often hears the question "Why did we have to go to university?" Mr. Weiher said that the University should stress teaching people how to apply their learning; he said that the University "does not teach enough practical experience." Students, he felt, should be taught how to "use and relate" their "ability to practical experience." He also wondered if perhaps the University was trying to mass-produce graduates rather than to educate those who could make most use of the learning available here. He pointed out that we "cannot educate all children at the same level." Classes, he said, should be filled with high quality not high numbers of students. Finally, he added that the University should make an effort to understand what the students think, should "probe [their] minds," and "listen and accept what the students have to say."

Last to speak was Les Young. He began by decrying the lack of communication between advanced education institutions and the Legislative Assembly. It is something, he said, that neither side should be proud of.

What members of the University community, Members of the Legislative Assembly, and members of the public must do is "reassess whether the role [of higher education] has changed." They must "reassess the expectations of students and the public in terms of what the University should be." Mr. Young said that in discussions of the role of the University there is a conflict between the "utilitarian concept versus the liberal ["that is, education leading to a mature, well-rounded individual"] concept." He said that

"students do not understand what they're going to acquire," and that perhaps the University itself does not understand what they will acquire. (Mr. Macmillan also said that there is a "state of real confusion" in this regard.)

During the general discussion that followed the presentations, Senate members agreed with many of the statements put forward and remarked that they thought it important to listen to the public's views of the University.

## PRESIDENT'S ADDRESS TO THE FRIENDS OF THE UNIVERSITY

*The annual dinner meeting of the Friends of the University was held Wednesday, 27 April. The following address was presented by University President H.E. Gunning on that occasion.*

Some three years have intervened since last I talked to the Friends of the University. During this period I have been concentrating experience at a very rapid rate in my role as President of this great University of ours; and I thought you might find it interesting tonight if I shared some of those experiences, impressions, and perceptions with you that I have garnered along the way.

In many ways a large multi-versity, such as ours, is simply a full-fledged society in miniature. In addition, of course, the University is a vast intellectual resource, which when properly encouraged and properly used can be of enormous benefit to the society it serves.

When I became President, one of the objectives I set for myself was to make the University increasingly useful to the many publics with which it interacts. This is obviously a very complex, multi-faceted, objective which I have nevertheless found extremely valuable to keep before me. The President has a unique perspective on the University. He interacts with almost every section of it and thereby gains a comprehensive insight into what the University is doing and what it stands for. It is this experience that I would like to share with you.

The governing structure of our University is dominated by two main bodies, the Board of Governors and the General Faculties Council. The President is very much a part of both bodies since he is a member of the Board of Governors and also Chairman of General Faculties Council. As a Board member I have been particularly impressed by the many fine public-spirited individuals who work in such a dedicated fashion to improve the effectiveness of our University. It is a great source of encouragement to me when I find the lay members of the Board fully supporting me in any effort to improve the quality of our University.

Our General Faculties Council, the academic

governing body of our University, is a blend of roughly equal numbers of students, staff members, and administrators. When students first participated in the proceedings of our General Faculties Council on a parity basis with the academic staff—and this occurred, if you recall, in the late sixties—there were many who had misgivings that this would lead to a lowering of the quality of our decision-making in this body. In my view quite the contrary has happened. I work very closely with the students on our General Faculties Council and on the many committees associated with it, and I never cease to be impressed with the important contributions they make in every aspect of our activities.

One of the great advantages of student participation in the governing structure of our University, is that thereby these young people gain a unique insight into how a large university is run, and when they leave the University to take up important positions in our society they carry with them a special understanding of how the University, when properly supported, can contribute to a better way of life for all of us.

In certain respects there are appreciable differences in the values held by university people and by the public at large. In universities we are very conscious of the fact that we are part of a vast knowledge-gathering system which connects us with the entire intellectual world. We know that in our teaching and research, we could not survive without constant interaction and communication with our colleagues in various intellectual centres throughout the world. We are also more conscious, perhaps, than the public in general, of our debt to other institutions of higher learning who have helped to educate us. Such a conflict of values can be seen in the much-discussed foreign student fee issue.

I am convinced that one of the major tasks confronting our University is to learn how to communicate more effectively with the public. Our society is so complex that most of us have a very inadequate understanding of how it operates. Let me cite a simple example. When a physician prescribes a certain medication for us, we are, unbeknown to most people, benefitting from the labors of many highly skilled and highly trained workers. The medication is the end product of the work of many specialists in chemistry, physiology, biochemistry, and medicine, as well as the highly skilled entrepreneurs and business men who operate the high technology industries that produce such vital pharmaceuticals. These individuals were all trained in universities and their ability to continually exploit their own creative potential was developed in universities. How do we get across to the public these many

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Forest Bard

complex functions which the University performs?

In the sixties, the keyword which seemed to characterize that decade was "relevance." For the seventies we have a new word, "priorities." We are constantly concerned in a society faced with the prospect of diminishing resources, of determining what is the most important thing to do and this involves setting priorities. The University is no exception. Recently, our Board of Governors instructed me to assemble a master committee to study priorities at the University. And we will make this a cooperative enterprise in which the various faculties will study questions with respect to their particular group of disciplines and feed in their findings to the central committee for rationalization. At the same time our Senate will undertake to assess what the public expects of our University. I am very pleased indeed that our Senate has agreed to take on this important undertaking. From this coordinated effort of so many dedicated and

public-spirited individuals we hope to develop a series of objectives against which we can determine our priorities and measure our effectiveness.

I need not emphasize to this group that this is no simple matter. Universities must be so many things to so many people since they represent the vast span of human creativity.

One approach to the problem of priorities might be to look at the obviously functional side of our University first. Our society, for example, has a strong demand for trained specialists in the health-related professions, including medicine, dentistry, and ancillary fields. Such programs are costly and clinical facilities for the training of students sharply limited. As a result we are obliged to place quotas on such faculties. Similarly there is a high demand for professionals in law and in business. And we have an embarrassment of choice of students for the limited number of places on these faculties. The same remarks would also apply for specialists in the handling of our non-renewable and renewable resources

emerging from the programs in our Faculties of Agriculture and Engineering. Clearly the need for first-rate facilities to educate professionals in the aforementioned fields is *bold-type* priority.

However when we start to look at these priorities more closely we find that such faculties are dependent upon more fundamental areas of knowledge for their existence, their continued development, and their revitalization. Thus engineering, for example, has its roots in mathematics, physics, chemistry, computing science, and related areas of fundamental knowledge. Similarly, medicine could not exist without the work of chemists, biochemists, physiologists, and many other specialists in the fundamental sciences. Thus even if we set for ourselves the very obvious task of training the professionals we need, our University would still have to have traditional faculties such as science and arts in order to provide the fundamental knowledge upon which these applied fields depend.

But there is more to life than having

available the services of trained specialists to meet our physical needs. We need music, we need art, we need literature, we need teachers to stimulate the minds of our children, to mention but a few of our additionally obvious priorities. And above all we need to know everything that we have learned in our past in order not to have to go over the same ground again so that we can make wise decisions about our future. The University represents our connections with the past in every field of intellectual endeavor. So you see the work of our Priorities Committee will be difficult and frustrating owing to its complexity. It is like so many other problems: the less one knows about them the easier they seem. The results of our study will be made freely available to the public and perhaps, through this undertaking, the public will gain a greater understanding of the many roles which a major university such as ours has to perform.

In the many discussions which I have had with members of the public concerning, for example, the foreign student fee issue, it became apparent that serious misconceptions existed, based on an inadequate understanding of this particular matter. Clearly one of the major roles of our university should be to provide the knowledge base necessary for intelligent decision-making on the part of the general public. If we had been given more time to do this before political action was taken, I feel confident that more meaningful political decisions could have been made on this matter. The broader principle still obtains however. We must set up mechanisms whereby important public issues can be discussed and the latest information on such issues made available in a readily comprehensible form to the public. This is the major purpose of our new Alumni Forum, the first meeting of which took place today. This important activity of our alumni organization is designed to provide an opportunity for the discussion of major issues crucial to the future of Alberta and Western Canada. I am very pleased indeed to have been associated with the initiation of this important undertaking, and I am confident that it will become increasingly appreciated as a means of informing the public on politically significant issues.

One of the most stimulating experiences for me as President has been getting to know and appreciate the many important research activities being carried out by members of our staff in the various faculties of our University. The range of these activities is unbelievably broad, varying from exciting new methods for overcoming learning disabilities in mongoloid children to advances in our understanding of the nature of magnetic fields. We are doing everything in our power to inform the public of these many important advances which we

are making, all of which will either immediately or in the future be of benefit to our society. However, communication is difficult, time-consuming, and hindered by the barriers of high specialization.

Through the excellent work of our departments of Public Relations and Publications and the efforts of faculties and individual members of staff, some of the good things happening at the University are getting to the public. Unfortunately, we are simply not putting enough of our resources into this important function.

Too often all that the public knows about the University is some particular minor negative aspect of our total operation. Certainly bad news travels fast, and sometimes I feel that newsworthy items imply something that is at once negative and depressing. I had a very interesting discussion with one of our leading media people in Edmonton when we travelled back from Toronto by plane together. I pointed out to him that in my view one of the greatest triumphs of this decade was the elimination of smallpox as a disease. This is probably our greatest example of international achievement and certainly one of the major triumphs of the human race. Yet the press has made practically nothing of this great adventure, and there has been a most inadequate coverage on television. Perhaps this tendency towards everything that is negative in our news coverage is symptomatic of a basic malaise in our society.

Finally I would like to speak briefly about my relations as President with government, at the civil, provincial, and federal levels. Naturally, my position brings me in very close contact with many government officials. I have had, for example, the pleasure of working with members of the government of our city in the development of an industrial research park for Edmonton, with the Department of Advanced Education and Manpower in connection with the financing of our University and in many other matters, and with other departments of our provincial and federal governments in lending support and technical assistance in many worthwhile enterprises for the betterment of our province and our nation. I have found these associations very stimulating and I have nothing but the highest praise for the government officials with whom I have had the privilege to be associated. I feel that our provincial government and the University are partners in shaping a physical and intellectual environment in which all Albertans will ultimately be able to achieve their full potential. All told, the past three years have been a most stimulating experience for me, tempered only by a gnawing feeling of my own inadequacy, in the face of the many challenges which have confronted me.

## GENERAL FACULTIES COUNCIL

*The regular meeting of General Faculties Council was held on Monday, 25 April. The following matters were among those considered.*

### Question period

*Nomination procedures for academic staff representative on Board*

Professors Stephens-Newsham, Pharmacy, and Eberlein, President, AASUA, both queried the nomination procedures used for the election of academic staff representatives on the Board of Governors. Ms. McCaughan, Secretary to General Faculties Council, noted that according to GFC policy each faculty is requested to submit nominations up to the number of representatives of that faculty on General Faculties Council. Previously, Administrative/Professional Officers and Librarians could each elect one nominee, but these groups felt such elections would be a waste of time since neither an APO nor a librarian would be likely to be elected by the academic staff at large. The GFC Executive Committee, at its 4 April meeting, interpreted existing policy to mean that academic staff representatives on the Board of Governors would be elected by all academic staff, but nominees would be chosen from the teaching staff. The requests for nominations were sent to the deans of faculties, whose methods for selecting nominees were left to their discretion.

Ms. McCaughan, for the Secretariat, recommended that future elections of this sort be handled by the AASUA.

### Library lights and hours

In reply to a question from student member G. Noval regarding lighting levels in University libraries, Vice-President (Planning and Development) R. Phillips reported that Physical Plant staff regularly check light levels in classrooms, offices, etc. and have been recommending in most cases that light levels be reduced, recent standards for lighting in buildings being in many cases only twenty-five percent of the lighting standards of the late 1950s and 1960s. He noted, however, that because Rutherford Library South was built in the 1940s and its lighting might indeed be below standard, the matter would be investigated.

### New members

The following staff members have been elected to serve on General Faculties Council: Anne Lambert, re-elected, Home Economics; D.G. Tyndall, Business Administration; A.H. Arnold, Arts; L.M. Fedigan, Arts; J.V. Freeman, Arts, until 30 June 1980; J.A. Lejnieks, Arts, until 31 December 1979.

The following student members have been elected to serve for one year on Council:



Brian Doherty, Graduate Student, Mathematics; Monica Nagainis, Graduate Student, Chemistry; Elizabeth Russell, Nursing; David Kasper, Medicine; and undergraduate students Barry Chute, Mike Ekelund, and Dean Olmstead.

#### **Nominating Committee report**

The following persons have been elected to serve on these GFC committees.

*Committee on Native Studies:* M. Assheton-Smith, Educational Foundations; Burton Smith, Dean of Students; Colleen Glen, Law—2; K. Toohey, Graduate Student, Education; and Edward Bellerose, native elder.

*Academic Appeals Committee:* Eileen Crane Law—2; Brent McDonough, Science—3; Les Block, Arts—3; Richard Lukay, Engineering—3.

*Executive Committee:* J.A. Lejnieks, Political Science; G. Huntington, Science—2; R. Read, Science—2; M. Wiegand, Graduate Student, Zoology.

*Admissions and Transfer Committee:* D. Akerstrom, Commerce—3; A. Fenna, Arts—1; D. Rand, Education—2.

*Campus Development Committee:* Robert Proudfoot, Agriculture—4; Anne Crawford, Arts—1; Rose Burko, Graduate Student, Plant Science.

*Computer Facilities and Policy Committee:* D. Zon, Science—3; J. Kearsley, Graduate Student, Interdisciplinary Studies.

*Conference Funds Committee:* A. Hayduk, Graduate Student, Educational Psychology.

*Housing and Food Services Committee:* T. Tebelmann, Non-Academic Staff, Art and Design. K. Greenaway, Arts—1; R. Molzan, Education—2; M. Kelly, Arts—1;

D. Somerville, Commerce—4; A. Arduini, Graduate Student, Chemistry; J. Williams, Graduate Student, Community Development.

*Library Committee:* B. Galler-Smith, Science—3; B. Mills, Graduate Student, Comparative Literature.

*Committee for the Improvement of Teaching and Learning:* Elaine David, Law—2; R. Read, Science—2.

*Campus Law Review Committee:* W.J. Harris, Commerce—1.

*University Planning Committee:* G. Longmore, Graduate Student, Zoology; J. Spark, Science—3; Catherine Morris, Law—2.

*Writing Skills Committee:* S. Seggewiss, Graduate Student, English.

*Undergraduate Scholarship Committee:* J. Jung, Arts—3.

*Radio and Television Committee:* R. Gillies, Arts—2; M. Kelly, Arts—1.

*General University Disciplinary Impanelling Boards:* D. Somerville, Commerce—4; D. Rand, Education—2; M. Mannes,

Arts—3; A. Fenna, Arts—1; M. Haber, Arts—3; B. McDonough, Science—3; L. McCrimmon, Arts—2; G. Feehan, Science—2.

#### **Replenishment of Nominating Committee**

The following new members were elected to the Nominating Committee: M.L. Marckworth, Linguistics; L. Stewart, Elementary/Secondary Education; Randy Read, re-elected, Science—3; Ronald Pascoe, Arts—3; Walter Lidster, Arts—4; Murray Wiegand, Graduate Student, Zoology; Monica Nagainis, Graduate Student, Chemistry.

#### **Search Procedures for Presidents and Vice-Presidents**

Council approved the following amendment made by the Board of Governors to revised procedures, approved by Council earlier this year, for selecting Presidents and Vice-Presidents: that in A2(c) and in B2(c) the phrase “. . . and also if the nominees are prepared to accept a performance evaluation when seeking a renewal of their term” be replaced by “. . . and also if nominees are prepared to cooperate in a systematic assessment of their performance during their term.”

Council also adopted in principle two motions forwarded from the AASUA spring general meeting: “that where academic staff members of the Board of Governors and of Search and Review Committees for President and Vice-President are selected following a ballot of all academic staff members, the procedure used should permit the addition to the ballot of any member of the academic staff who is willing to serve and who is suggested by sufficiently many (10) academic staff members”; and “that in the election of academic staff members to the Board of Governors and the Search and Review Committee for Presidents and Vice-Presidents, the nominating process should allow for the direct participation of academic staff.”

The general matter of electoral procedures will be forwarded to GFC Executive.

#### **Committee on Admissions and Transfers: Terms of Reference**

Council approved the following terms of reference proposed by the Committee on Admissions and Transfers.

##### *General Principles*

To assist GFC in the establishment of policy with respect to admissions and transfer.

To implement and monitor University policy on transfer of credit.

To facilitate smooth transfer of students to the University from other post-secondary institutions in Alberta.

To assist colleges in meeting program requirements.

To provide articulation with the Provincial Council on Admissions and Transfer.

#### *Specifically*

A. After consultation with the faculties where appropriate, to recommend to GFC with respect to:

1. Policies governing transfer of credit between other institutions and the University of Alberta.

2. Policies governing admissions to the University.

3. Proposals for new formal affiliation agreements or major changes in existing agreements between other institutions and the University of Alberta, upon referral to the Committee on Admissions and Transfer by GFC.

4. Such other related matters as are referred to the Committee from time to time.

B. Upon consultation with the faculties where appropriate, to act under authority delegated by GFC as follows:

1. To establish and maintain dialogue with Alberta sending institutions.

2. To approve or deny approval of proposed arrangements for transfer of credit for courses offered by non-university educational institutions in Alberta.

3. To monitor and approve the entries in the Alberta Provincial Transfer Guide that are relevant to the University of Alberta.

4. To monitor the application of existing formal affiliation agreements with Alberta colleges.

5. Where feasible, to undertake studies requested by GFC or the faculties on the effects of admission requirements, including quotas, or to initiate such studies.

6. To interpret and advise on University policy regarding admissions and transfer of credits from both Alberta institutions and those outside the province.

7. To establish such policies and procedures as are necessary to carry out its delegated responsibilities.

#### **Prerequisite grade of 4:**

##### **Implementation**

In response to a query for clarification from the Faculty of Agriculture and Forestry regarding the implementation of the policy requiring a minimum grade of 4 in a prerequisite course, Council agreed with its Executive Committee's recommendation that the policy take effect in the 1977-78 academic year and that it affect students entering the senior course.

It was noted that the onus was on the student to register correctly and that, commencing with the 1977-78 academic year, the registration of any student in a senior course would be cancelled if it were discovered he had an undeclared grade of 3 in the prerequisite.

Dean Baldwin noted that in some faculties, including Arts, this policy has been in effect for several years.

#### **AASUA Motion on University Government**

Council voted to table until September the motion from the AASUA "that a GFC committee be struck with adequate representation from all parts of the University and with provision for adequate University community input on the matter of University government."

Tabling the motion will allow time for gathering the responses from the faculties to the proposal from the President's Committee on University Legislation and for new members to acquaint themselves with Council procedures.

#### **Admission to Quota Faculties**

Council considered and approved a motion from Vice-President (Academic) M. Horowitz "that for 1977-78 the guidelines be interpreted to mean that in quota programs the University's objective is a minimum of 5 percent foreign students and 10 percent non-Albertan Canadians, *providing that no non-resident of Alberta is admitted who is less qualified than any Alberta resident who is denied admission.*"

Previous GFC policy was that "in any quota program (a) a minimum of 5 percent of the positions shall be open to all applicants without regard to citizenship or residence, and (b) a minimum of a further 10 percent of the positions shall be open to all applicants who are Canadian citizens, landed immigrants, or residents of Canada."

Dr. Horowitz explained that different faculties had interpreted this policy in different ways. One way had been to say that the top 5 percent of applicants would be admitted regardless of citizenship or residence and the next ten percent, in terms of qualifications, would be open to all Canadian citizens, landed immigrants, or residents. The effect of such an interpretation has been that in several faculties there are no visa students at all and in some faculties there are few if any non-Albertan Canadians because applicants in these groups were not in the top 5 to 10 percent of all applicants.

He pointed out the value to each faculty and to the University as a whole of having a mix of Albertans, non-Albertan Canadians, and students from other countries, and several members concurred. He emphasized, however, that it was not desired to admit visa students or non-Albertan Canadian students who were less qualified than Alberta students who had not been admitted.

#### **Departures from Official Examination Schedule**

Council approved the following motion from Students' Union Vice-President (Academic) G. Huntington:

"that normally there shall be no departure from the official Final Examination Schedule. Instructors and students may, however, petition

the Faculty Council concerned for permission to depart from the Schedule if justified reasons can be established. No departures shall be considered for approval unless the instructor of the class concerned and every student registered for credit in the class have given their written consent. Such consent shall take the form of either written letters or signed and dated forms made available from the Dean's office.

"These notices of consent shall be conveyed to the Dean of the Faculty on an individual basis at least one month prior to the new date being requested. If and when unanimous consent is received from the class, this fact shall be communicated to both the instructor involved and the Faculty Council.

"All such notices of request shall be received by the Dean, in confidence, and it will not be the Dean's responsibility to ensure that all members of the class have been informed of the need to submit such written consents. This will be the responsibility of the instructor or those members of the class who have initiated the request for a change in the examination date."

The purpose of this rather elaborate motion is to discourage changes in the final examination table which might work hardships on the students involved.

#### **UNIVERSITY MUSEUM SEMINAR**

As part of the Canadian Museums Association Annual Conference, the University of Alberta and the University of Calgary are co-sponsoring a day of sessions (Monday, 30 May) devoted to the unique needs of university art galleries and museums. These seminars will take place at the Glenbow Convention Centre.

Unlike the American Museums Association sectors and other organizations in the United States, there has never been an association, conference, or other mechanism through which university personnel involved in museum-related functions could communicate. Because the Canadian Museums Association is holding its 1977 conference in Alberta, the University of Alberta Collections Committee took the opportunity to suggest a one-day seminar on university museums.

The two speakers for the morning sessions are Alan Sawyer from the University of British Columbia and David Bellman from the McCord Museum. Dr. Sawyer will speak on "The role of university museums as teaching facilities," and Mr. Bellman's talk will be about "The McCord Museum: history and development of a university museum." Time is being allowed for a discussion period to deal further with such topics as the administration of university museums and galleries, funding problems, collection policy, and the specific roles of university museums as distinct from

those of public museums and galleries.

The panel discussion scheduled for the afternoon sessions should be of interest to almost every museum professional. The topic to be discussed is "The relationship of the artifact/specimen to teaching and research." Members of the panel will be Philip Ward of the British Columbia Provincial Museum, Ron Moppett of the Alberta College of Art, and G.E. Ball of the Department of Entomology, the University of Alberta.

For further information, programs, and application forms, please call the University Art Gallery and Museum at 432-5834.

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#### **PEOPLE**

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■ Alton Olson of the Department of Secondary Education, Daiyo Sawada of the Department of Elementary Education, and Sol Sigurdson of the Department of Secondary Education have been awarded a \$43,000 contract with Alberta Education to carry out a province-wide assessment of mathematical competence in Alberta students. The final report, to be known as the Alberta Assessment of School Mathematics (AASM), is to be submitted to the Minister of Education, Julian Koziak, by September 1978. The study, it is hoped, will establish the beginning of a continuing index of student mathematical competence in the province.

■ Fred Boersma, Professor of Educational Psychology, is the recipient of a \$28,370 Canada Council Research Grant. His project is entitled "Perceptions and expectations: their influence on cognitive and affective development in learning disabled children."

■ Bruce Bain, Associate Professor of Educational Psychology, is the recipient of a \$10,000 Canada Council Research Grant. His project is entitled "Unilingual and bilingual development of verbal regulation of cognitive processes: a crosscultural study of Alsatian, Albertan, and Hong Kong children."

■ James Cummins, Research Associate at the Centre for the Study of Mental Retardation, recently returned from New York and Washington, D.C., where he acted as a consultant to the Ford Foundation on ways of influencing the direction of bilingual education in the United States.

■ Milan V. Dimic, Professor of Comparative Literature, was one of three Canadian representatives at recent meetings of the Executive of the International Comparative Literature Association and the Advisory Panel of the American Comparative Literature Association held at the University of Illinois in Urbana, Illinois. Dr. Dimic presented the treasurer's report and two reports on editorial policies; he was also re-elected for a three-year

term as member of the Coordinating Committee responsible for the *Comparative History of Literature in European Languages*. He was also appointed to chair the editorial committee (composed of E. Behler, L. Furst, F. Garber, and R. Wellek) on a six or seven volume series on Romanticism.

■ S.H. Arnold, Associate Professor of Comparative Literature, E.K. Ismail, Graduate Student in Comparative Literature, and J.L. Mollel, Graduate Student in Drama, all gave papers and were on discussion panels at the annual African Literature Association Meetings held in Madison, Wisconsin, from 23 to 26 March. S.H. Arnold gave a paper on "Ismail Mbise's *Blood on Our Land*: pre-independence action related to post-Ujamaa policies" and participated in a panel discussion on "Literature and ideology." E.K. Ismail delivered a paper on "Swahili folktales and *1,001 Nights*: a Bantu-Arab confrontation" and participated in the "Problems in oral literature" panel. J.L. Mollel gave a paper on "Observations on three recent Tanzanian theatrical productions" and was a member of the panel discussing "Literature as a performing art."

■ G.S. McCaughey, Professor of English, recently attended the Annual Meeting of the Pacific Northwest American Studies Association at Pullman, Washington, where he presented a paper on aviation literature entitled "Viewers and doers." Professor McCaughey has been asked to read a paper at the First International Conference on Computing in the Humanities, to be held at Waterloo University.

■ John W. Chalmers of the Department of Educational Foundations, has recently had two articles published: "Treaty Number Six" was published in *Alberta History* (N.25#Z), and "Schools for our other Indians: education of western Canadian Metis children" was published in *The Canadian West*, edited by H.C. Klassen. Dr. Chalmers has also been chosen as chairman of the Edmonton Historical Board, to which he was reappointed for a second three-year term.

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## VISITORS

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■ Laurent Siklóssy of the University of Texas at Austin delivered a Computing Science colloquium on 2 May; the title of his lecture was "Problem-solving in simulated robot worlds."

■ P.A. Langley of the Tsetse Research Laboratory at the University of Bristol recently delivered an Entomology seminar on "Implications of physiological studies on the tsetse fly, *glossina morsitans*, in the development of control measures."

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## NOTICES

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### LOST AND FOUND PROPERTY

Campus Security operates a lost and found registry, and is required to destroy or otherwise dispose of a large amount of property each year because no claim is ever registered by owners. The University community should become aware of the lost and found service; if you need assistance, telephone 432-5252 or visit the Campus Security offices north of the Education Centre.

### RECREATION 479

E.J. Taylor, social psychologist from Brandon University, will be teaching Recreation 479, a seminar course applying social psychology theory to recreation practice. It will be offered through the Department of Recreation Administration in the second term of Spring Session each day from 10 a.m. to 12:20 p.m. The seminar will be of interest to graduates and senior undergraduates in the social sciences. Interested persons should note that the course will have a maximum enrollment of twelve.

### 1977 GARBATHON

Inter Varsity Christian Fellowship and Pioneer Ranch Camps will hold their annual "Garbathon" to help clean up Edmonton on 7 May Saturday. If you are interested in supporting the project, telephone 433-4916.

### INTERRUPTION OF SPECIAL COLLECTIONS SERVICES

From May to August ceiling alterations in the Special Collections' stacks area will necessitate the removal of the entire collection to another location. The temporary location, 028 Cameron Library, will not house all of the collections. Therefore, some infrequently used materials will have to be placed in storage.

During May and August, while the collection is being moved, most of the items will be unavailable. These items include the closed stacks, special collections, pamphlets, manuscript collections, and the archival copy of all University theses and dissertations. During June and July, most of the collection will be available, particularly such heavily used documents in the areas of European history, Canadian history, literature, and theses and dissertations.

Any faculty members or students planning research in Special Collections between May and September should contact John Charles, Special Collections Librarian, as soon as possible to ensure that specific materials can be made available when needed.

### HOST FAMILIES FOR FOREIGN STUDENTS

The Foreign Student Office is seeking interested families willing to host international

students who will be here for special summer programs. Further information is available by calling 432-4145.

### COMMITTEE VACANCY

*Selection Committee for the Dean of the Faculty of Pharmacy and Pharmaceutical Sciences*

The GFC Nominating Committee is seeking nominations for one person to be elected by General Faculties Council to serve on the Selection Committee for the Dean of the Faculty of Pharmacy and Pharmaceutical Sciences. Regulations governing the composition and selection committees for deans require that one member, not a member of the Faculty concerned, be elected by General Faculties Council.

Persons who have suggestions for nominations or who are interested in serving on this committee are requested to contact the Secretary of the Nominating Committee, 1-15 University Hall, telephone 432-5715, no later than 10 May.

### ACADEMIC WOMEN'S ASSOCIATION

The Academic Women's Association will have its final meeting of the year on 16 May, Monday, at the Faculty Club. A supper from the buffet at 5:30 p.m. will be followed by a meeting at 7 p.m. Those persons wishing to attend should contact Sheila Bertram, 3-11 Rutherford South, telephone 432-5315, before 13 May.

### DEVONIAN BOTANIC GARDEN

The Devonian Botanic Garden, situated three miles north of Devon on highway 60, will be open during the following hours this summer: Saturday, Sunday, and public holidays, 1 p.m. to 6 p.m.; during May from Monday to Friday, 3 p.m. to 8 p.m.; June, July and August, Monday to Friday from 3 p.m. to 9 p.m.

### ST. STEPHEN'S COLLEGE CONVOCATION

At the St. Stephen's College annual Spring Convocation, 26 April, the honorary degree of Doctor of Divinity was conferred on Rev. James D. Ormiston and Douglas Roche.

James Ormiston was raised in Saskatchewan, took his initial work in Saskatoon, and from there proceeded to Princeton Theological Seminary where he achieved two degrees in theology. His first major pastoral opportunity was among Canadian native peoples at Hudson's Bay. For ten years he served in Angola where he gave leadership during a time of political uncertainty. Such experience led him to take part in the administration of Canadian Crossroads International, an organization dealing with students wishing to work overseas. Rev. Ormiston is now Executive Secretary of the North West Territories Community Services Corporation, Vice-Chairman of the

Northern Addiction Service Board, Chairman of the Family Planning Association, and Civilian Chaplain of the Northern Region Headquarters of the military establishment at Yellowknife.

Douglas Roche is the founding editor of the *Western Catholic Reporter*, a weekly paper which has won eleven national awards. As a layman of the church, he has expressed an enthusiasm for ecumenical involvement spending much of his time travelling throughout Canada and across the world studying the social and moral issues of population, food, and social justice. In addition to his role in the House of Commons, Doug Roche is a member of the Human Rights Commission both for Alberta and the Canadian UNICEF. He is Vice-Chairman of the Inter-Parliamentary Union and represents Canada on the Board of the World Conference on Religion for Peace.

A Master of Theology degree was awarded to Rev. Philip A. Cline, Executive Secretary of the Alberta Conference of the United Church. This is the second such degree to be awarded by St. Stephen's College.

#### SPECIAL SESSIONS OFFICE

*The following information has been received from W.F. Allen, Associate Vice-President (Academic)*

In recent years there have been substantial changes in the Special Sessions offerings of the University of Alberta. There have also been growth and changes in the admission and transfer of students from colleges. In order to provide the most effective support possible within a limited budget, the University is making some changes in the staff and administration in these areas.

Effective 1 July, on the retirement of Stanley Clarke, Lloyd Carswell will become Acting Director of Special Sessions. He will continue to be responsible for the Spring and Summer Sessions, but will share with the Registrar's Office responsibility for the Off-Campus Evening Credit Program. To meet this workload and to allow increased support in the Admissions and Transfer area, the Registrar's Office will be given an additional staff member. The following responsibilities will be assigned to the Special Sessions Office: Spring Session, Summer Session, Off-Campus Evening Credit Program, including courses, instructors, and work with faculties and departments. The Registrar's office will be responsible for work in communities (local contact persons, student recruitment, local problems with courses), and cooperation with other institutions; the former will be coordinated with APEL, the latter with CAT.

The arrangement is experimental. It will be reviewed next year and may be confirmed or modified at that time.

## THIS WEEK AND NEXT

*Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.*

### 5 MAY, THURSDAY

#### Reuben Benjamin Sandin Lecture

11 a.m. "The life and work of Sir Robert Robinson," with speaker Sir John Cornforth, University of Sussex. Sponsored by the Department of Chemistry. E1-60 Chemistry Building.

#### Student Cinema

7 p.m. and 9:30 p.m. *Nickelodeon* (United States, 1976). Starring Ryan O'Neal and Burt Reynolds. Students' Union Theatre. Admission is \$2. Tickets available at the HUB Box Office and the door.

#### Edmonton Opera Association

8 p.m. *The Daughter of the Regiment* by Donizetti, performed in a new English version. With Beverly Sills, William Harness, and Napoleon Bisson. Jubilee Auditorium. For ticket information contact the Opera Association, telephone 422-7200, or Woodward's.

### 6 MAY, FRIDAY

#### Reuben Benjamin Sandin Lecture

11 a.m. "Symmetry of squalene epoxidation *in vivo*," with Speaker Sir John Cornforth, University of Sussex. Sponsored by the Department of Chemistry. E1-60 Chemistry Building.

#### Faculty Club

*Downstairs.* Happy hour: steak sandwiches, hamburgers, hot beef dips, french fries, tossed salad.

*Upstairs.* Italian special: veal scallopini, noodles, zucchini and tomato casserole, salad, garlic bread, cassata. \$5.50. Also lobster, \$12.50, and regular dinner menu. Reservations required. Entertainment: Craig Sobat, singer-guitarist.

#### National Film Theatre

8 p.m. *L'Alibi* (France, 1936). Supporting actor Erich Von Stroheim. Supporting Actor Series. Centennial Library Theatre. Admission is \$2 regular and \$1.50 for students and senior citizens. Series tickets available at the HUB Box Office and the Centennial Library's A-V Desk; single admissions at the door.

#### Concert

8:30 p.m. Bruce Cockburn performs. Students' Union Theatre. Admission is \$5 advance and \$6 at the door. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

### 7 MAY, SATURDAY

#### Faculty Club

*Downstairs.* Saturday special: Cornish game hen, rice, artichoke salad, lemon meringue pie. \$5.50.

*Upstairs.* Lobster, \$12.50, and regular dinner menu. Reservations required. Entertainment: Cameron and Company.

#### Edmonton Opera Association

8 p.m. *The Daughter of the Regiment*, by Donizetti, performed in a new English version. With Beverly Sills, William Harness, and Napoleon Bisson. Jubilee Auditorium. For ticket information contact the Opera Association, telephone 422-7200, or Woodward's.

#### Concert

8:30 p.m. Bruce Cockburn performs. Students' Union Theatre. Admission is \$5 advance and \$6 at the door. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

### 8 MAY, SUNDAY

#### Concert

7:30 p.m. Bruce Cockburn performs. Students' Union Theatre. Admission is \$5 advance and \$6 at the door. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

### 9 MAY, MONDAY

#### Edmonton Opera Association

8 p.m. Donizetti's *The Daughter of the Regiment* in English. With Beverly Sills, William Harness, and Napoleon Bisson. Assisted by the Edmonton Symphony Orchestra. For ticket information contact the Association, telephone 422-7200, or Woodward's.

### 10 MAY, TUESDAY

#### Physics Seminar

3:30 p.m. "Birkeland currents in the auroral oval and polar cap, inferred from ISIS-2 magnetic measurements," with speaker J.R. Burrows, NRC/Herzberg Astrophysical Institute. Sponsored by the Institute of Earth and Planetary Physics. P-636 Physics Building.

#### National Film Theatre

8 p.m. *The Kid Brother* (United States, 1927). Harold Lloyd Comedy Series. Centennial Library Theatre. Admission is \$2 regular, \$1.50 for students and senior citizens. Tickets available at the HUB Box Office and the Centennial Library's A-V Desk; single admissions at the door.



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## 11 MAY, WEDNESDAY

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### Student Cinema

7 p.m. *The Passenger* (Italy/France/Spain, 1975). Starring Jack Nicholson and Maria Schneider.

9:30 p.m. *The Missouri Breaks* (United States, 1976). Starring Marlon Brando and Jack Nicholson. Admission is \$2. Tickets available at the HUB Box Office and at the door.

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## 13 MAY, FRIDAY

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### Faculty Club

*Downstairs.* From the grill: steak sandwiches, hamburgers, french fries, hot beef dips, tossed salad.

*Upstairs.* Quiche and champagne special: minestrone soup, beaucoup de quiche, herb bread, Caesar salad, fresh fruit coupe. \$5.50. Also regular dinner menu. Reservations required. Entertainment: Committee.

### National Film Theatre

8 p.m. *Sunset Boulevard* (United States, 1950). Supporting actor Eric Von Stroheim. Supporting Actor Series. Centennial Library Theatre. Admission is \$2 regular, \$1.50 for students and senior citizens. Series tickets available at the HUB Box Office and the Centennial Library's A-V Desk; single admissions at the door.

### Edmonton Symphony Orchestra

8:30 p.m. The Orchestra performs with the Camarata Trio. Program includes Beethoven's Triple Concerto in C major and Symphony No. 7. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

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## 14 MAY, SATURDAY

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### Faculty Club

*Downstairs.* Barbeque your own: steak, hamburgers, baked beans, cucumber and yogurt salad, fruit cup.

*Upstairs.* Regular dinner menu. Reservations required.

### Edmonton Symphony Orchestra

8:30 p.m. The Orchestra performs with the Camarata Trio. Program includes Beethoven's Triple Concerto in C major and Symphony No. 7. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

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## EXHIBITIONS AND PLAYS

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### Provincial Museum

*Continuing.* "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

To 4 June. "Bo'jou Neejee," an outstanding collection of rare Canadian Indian tools,

clothing, and religious artifacts, many created before 1850.

### Rutherford House

*Continuing.* The House, 11153 Saskatchewan Drive, is furnished in its original manner. Admission is free. Saturday and Sunday, 12 noon to 6 p.m. Tours by appointment, telephone 427-3995 weekends, 427-5708 weekdays.

### University Observatory

*Continuing.* Group tours of the Observatory may be arranged during the summer months. Admission is free. For further information telephone 432-4201.

### University Art Gallery

To 31 May. The University Art Gallery and Museum will be exhibiting paintings from the CIL Art Collection. Gallery hours are 11 a.m. to 4 p.m. on Tuesday and Wednesday, 11 a.m. to 9 p.m. on Thursday, and 2 p.m. to 5 p.m. on Sunday. The Gallery is located just south of the Faculty Club off Saskatchewan Drive.

### Centennial Library

To 31 May. An exhibition of photography by Visual Communication Design students.

### Edmonton Art Gallery

To 31 May. "The Camera as Engineer's Witness," an exhibition of fifty-seven prints, drawings, and photographs illustrating engineering projects in North America from the second half of the nineteenth century. Sponsored by the National Gallery.

To 5 June. "The Annual Students' Exhibition," a show of painting, drawing, and pottery by students of the Art Gallery.

To 27 May. "Paper Work," a show of works done on paper by five Alberta artists.

To 27 May. A show of abstract paintings by Bryan Nemish, a painting instructor with the Department of Art and Design.

Through May. "Recent Accessions," an exhibition of recently acquired works by local and international artists.

### Studio Theatre

To 7 May. Simon Williams's translation of Arthur Schnitzler's *The Lonely Road*. Directed by Siman Williams. Performances at 8:30 p.m. in Corbett Hall. For ticket information contact the Theatre Office, 3-146 Fine Arts Centre, telephone 432-2495.

### Northern Light Theatre

To 10 June. Mime artist Charles Shott and pianist Audrey Graham perform *Jest for You!* The series of comic sketches after Keaton and Chaplin will appeal to children and adults. Downstairs, Edmonton Art Gallery. Performances are at 12:10 p.m. Tuesday through Friday with extra performances at 1:10 p.m. Thursday and Friday. Saturday performances at 7:30 p.m. and 9 p.m. Admission is \$2 for weekday performances,

\$1 for senior citizens, and \$2.50 for all Saturday performances.

### Citadel Theatre

From 7 May. Bernard Slade's *Same Time Next Year*, a romantic comedy about a couple who are married, but not to each other, and who share an annual rendezvous. In the Shoctor Theatre. For tickets information contact the Theatre Box Office, 9828 101A Avenue.

### Theatre 3

From 10 May. Three Chekhov farces: *The Boor*, *On the Harmfulness of Tobacco*, and *The Marriage Proposal*. Performances at 8 p.m. Tuesday through Saturday, Sunday performances at 2 p.m. and 7:30 p.m. Tickets and season subscriptions available at the Bay Box Office, telephone 424-0121, and the Theatre Office, telephone 426-6870. Theatre 3 is located at 10426 95 Street.

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## NON-CREDIT COURSES

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### YUKON SUMMER SCHOOL

The Faculty of Extension, in cooperation with the Boreal Institute for Northern Studies and the Government of the Yukon Territory, has inaugurated the Yukon Summer School to provide participants with a means of learning about the Yukon's history, government, people, ecology, geology, and industrial development.

The first Yukon Summer School is designed for administrators, managers, professional specialists, and others engaged in northern activities; through a program of lectures and field trips participants will learn about the special conditions of northern operation.

The Summer School group will leave Edmonton for Whitehorse on Sunday, 21 August and return on Saturday, 27 August. Course registration must be made before 15 July at a cost of \$850, which includes transportation, meals (except for those in Dawson City), lodging, materials, and instruction by experts resident in the Yukon. Additional information and brochures may be obtained by contacting the Faculty of Extension, telephone 432-3022 or 432-5061.

### MTS AND EDITOR FUNDAMENTALS

Computing Services is offering an introductory course on the use of the computing system (MTS) at the University. Participants will learn to use computer terminals, to sign on, and to store and manipulate information. The course will be held in two two-hour sessions, from 9 a.m. to 11 a.m. on 9 and 11 May, in 351 General Services Building. Enrollment is limited to fifteen persons, but there must be at least twelve. For further information, contact Computing Services, telephone 432-2261.

# folio accepts display advertising

*Size and rates:* the basic unit size is 45 agate lines x 15 picas (3¼" x 2½"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2½" x 1½") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

*Other specifications:* half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

*Contact:* Richard Kerr or Esther Fraser, 326 Assiniboia Hall, The University of Alberta; telephone 432-4991.

## POSITIONS VACANT

### ACADEMIC POSITIONS

#### Administrative Officer Secretariat, President's Office

An Administrative Officer position will become vacant in the Secretariat on 1 July. The duties and responsibilities are diverse but will include supervision of minutes and preparation of materials for meetings. A well-organized person, male or female, who is able to work well under pressure is sought. The ability to write clear, concise English is essential, and a University degree is required. The salary range is \$13,722 to \$18,524. Please apply to M.M. McCaughan, 3-3 University Hall, telephone 432-4957.

#### Administrative and Professional Officer Department of English

The Department of English, invites applications from suitably qualified women and men for the position of Administrative and Professional Officer (APO) to commence 1 July, or perhaps before if suitable arrangements can be made.

Reporting to the Chairman, the APO is responsible for the administrative management of the Department, including supervision of all non-academic staff; preparation of budget, time-table, and statistics; organization of registration; and otherwise assisting the Chairman and Associate Chairman in all matters conducive to the efficiency and smooth running of the Department.

The position calls for someone with intelligence, tact, and initiative, thoroughly literate, and capable of working authoritatively with a considerable variety of people, academic and non-academic staff, and students, as well as carrying out the responsibilities of the position.

The salary offered is upwards of \$14,000, with opportunities for advancement to \$19,422, and eventually to \$21,579 for the right person. Apply in writing, giving full details of education, training, and experience, to R.F. Anderson, Chairman, Department of English, University of Alberta, Edmonton, Alberta T6G 2E5.

#### Administrative Officer Department of Psychology

The Department of Psychology invites applications for the position of Administrative Officer. The successful applicant will be expected to work closely with the Department Chairman in meeting the administrative requirements of the Department. Duties will include budget preparation, budget control, supervision of non-academic staff, timetables, department registration process, and liaison with academic staff, students, and other University administrators. Background in psychology with administrative experience is essential. Interested persons should submit letters of application with with resumés to W.M. Olson, Administrative Officer, Department of Psychology, P-220, Biological Sciences Centre.

### NON-ACADEMIC POSITIONS

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 29 April.*

Clerk Typist II (\$578-\$700)—University Health Service; Computing Services; Office of the Comptroller; Purchasing, Buying Operations  
Dental Assistant (\$624-\$756)—Faculty of Dentistry  
Clerk Typist III (\$649-\$786)—Computing Science  
Clerk Steno III (\$538-\$654, four-fifths time)—Industrial and Vocational Education

Clerk Steno III (\$672-\$817)—Secretariat; Chemistry (2 positions)  
Data Entry Operator (\$672-\$817)—Computing Services (2 positions)  
Secretary (\$756-\$926, term to 31 October 1977)—Pathology  
Secretary (\$756-\$926)—Computing Science; Faculty of Medicine; Chemistry  
Biochemistry Technician I (\$393-\$482, part-time, trust)—Microbiology  
Laboratory Assistant II (\$624-\$756)—Provincial Laboratory  
Storeman I (\$649-\$786)—Bookstore  
Building Services Worker II (\$700-\$852)—Housing and Food Services  
Biochemical Technician I (\$786-\$964, trust)—Faculty of Medicine  
Technician I (\$786-\$964, term, trust)—Faculty of Medicine  
Assistant Herdsman (\$786-\$964)—Animal Science  
Technician I (\$786-\$964, trust)—Genetics  
Audio-Visual Technician I/II (\$786-\$1,093)—Faculty of Physical Education and Recreation  
Dental Technician I (\$817-\$1,005)—Faculty of Dentistry  
Assistant Buyer (\$852-\$1,048)—Purchasing  
Maintenance Man II (\$852-\$1,048)—Housing and Food Services  
Laboratory Technologist I (\$852-\$1,048)—Provincial Laboratory  
Computer Operator II (\$887-\$1,093)—Educational Research  
Farm Equipment Operator (\$887-\$1,093)—Animal Science  
Bacteriology Technologist I (\$887-\$1,093)—Microbiology  
Chemical Technologist I (\$887-\$1,093, trust)—Civil Engineering  
Technologist I (\$887-\$1,093, trust)—Medical Laboratory Science  
Technician II (\$887-\$1,093)—Physics  
Electronics Technician II (\$926-\$1,141)—Civil Engineering  
Editorial Assistant (\$964-\$1,191)—Radio and Television  
Nurse (\$964-\$1,191)—University Health Service  
Administrative Assistant (\$1,005-\$1,244)—Collège Universitaire Saint-Jean  
Applications Analyst (\$1,005-\$1,244)—Physical Plant  
Pharmacist (\$1,093-\$1,356)—University Health Service  
Art Technician Demonstrator II (\$1,093-\$1,356)—Art and Design  
Biology Technologist III (\$1,141-\$1,417)—Genetics  
Farm/Ranch Manager I/II (\$1,141-\$1,547)—Animal Science

*The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.*

Library Clerk II (\$600-\$726)—Circulation; Acquisitions; Education  
Library Clerk III (\$649-\$786)—Cataloguing

## PERSONAL NOTICES

*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.*

#### Accommodation available

Spencer Real Estate Ltd. specializes in relocation of University personnel and handling professional investment portfolios. For confidential residential appraisals or national and international, telephone Jeanne Eid, 434-5780; or Liz Crockford, 434-0555; business, 436-5250.

For rent—1 July 1977—1 January 1978. Large clinker brick home, fully furnished, three bedrooms, study, playroom, six appliances. North side, fifteen minutes to University. Telephone 422-8369.

Close to University—attractive traditional two-storey home in quiet established area, on huge pie-shaped lot, south backyard exposure. Features include family room with open fireplace, separate living and dining rooms, main-floor laundry. Four large bedrooms, three-piece bath off master bedroom; completely finished rumpus and games rooms downstairs. Liz Crockford, residence 434-0555; Distacom, 426-5880 page 894; or Pat von Borstel, residence 434-4939. Spencer Real Estate, 436-5250.

Old brick traditional two-storey four-bedroom home. Minutes to University. Main-floor family room with open fireplace, attached double garage, kitchen appliances. Large fenced lot. Available now. Telephone Liz Crockford, 434-0555, 426-5880 page 894. Spencer Real Estate 436-5250.

Luxury one-bedroom condominium in Park Towers, 9908 114 Street. Thirty-two-foot living room, valley view, two balconies, pool, sauna, teak furniture. Available 1 May for lease. Renewable indefinitely. 488-7591; 432-3943.

Owner selling—1,650-square-foot semi-bungalow. Walking distance University. Four bedrooms, large kitchen, library, living and dining rooms. Hardwood floors; developed basement, recreation room 30 x 15.5 feet with bar and artificial fireplace; extra bedroom, half bath, workroom, storeroom, cedar closet, and utilities area. Available mid-August. 435-8694; 432-3732.

Mediterranean Coast—small X4 furnished chateau for rent. Beautifully situated. Four bedrooms, three bathrooms; central heating, large library. Excellent maid. Suit author or sabbatical. Lady

Cochrane. Vieux Chateau, Bormes-les-Mimosas, Var 83230, France.

Summer rental—1 July—15 September, or less.

Two-bedroom furnished. College Plaza. Telephone 433-3504.

Exclusive sub-division. Want to live in the country? Drive to Maude West Acres. Southwest of Stony Plain. 3.32 acres. R. Richter 455-4135, 488-6930. Weber Bros. Realty Ltd.

For sale—Garneau thirteen-room house. Telephone 439-6117 daily, 7 to 8 p.m.

Renting—2 July—30 August. Furnished three-bedroom bungalow. St. Albert. \$400 month. 459-3495 evenings.

Riverbend—three-bedroom partly furnished house with six appliances, two fireplaces, heated garage.

One-year lease; available 1 July. 435-2547.

Reduced rent—bungalow, June—July, in return for good care of grounds and one cat. 434-6923.

Renting—unusual accommodation; two-three persons. \$375 month. Available May. 429-1811; 432-2770.

For rent—sleeping room, private bath. Available 8 May. 112 Street 76 Avenue. \$100 month. 434-6371.

Responsible person or couple wanted to share three-bedroom house with two others. Ritchie area. House rent: \$425. Non-smokers preferred. 433-4839.

For sale—1½-storey home. Walking distance to University. Near all services. Basement suite; three bathrooms; garage; appliances included. Preferred possession date 15 August. \$63,500. 11223 76 Avenue. 434-5371.

For sale—large family home on large lot in Aspen Gardens near ravine; spacious family room, utility on main floor. Needs decorating. Asking \$84,500. Telephone Mrs. Anderson, Royal Trust. 435-4869; 434-4460.

For rent—executive house in west end. Five bedrooms, library, large swimming pool. Partly furnished, or unfurnished, depending on lessee. \$1,000 month. One-year lease. 488-0610.

For rent—three-bedroom new bungalow, St. Albert. \$425. Consider only responsible people. Available 15 May or 1 June. 458-8271.

For rent—furnished house on acreage near Sherwood Park. July 1977-August 1978. \$350 per month. Careful, non-smoking abstainers preferred. 467-0858.

Exceptional opportunity—mature woman has quality three-bedroom apartment (two baths), to share with working or retired female. Near University. 439-5580 evenings, or 487-2361.

For sale—University area; two bedrooms (third in basement), newly redecorated inside and out. Large lot, garage; basement ready for development. New furnace and wiring. Large existing mortgage. \$58,500. 436-3825; 432-3672.

For sale by owner—bi-level, four bedrooms, L-shaped living-dining room, large kitchen, two bathrooms, garage. Southwest, ten-minute drive to University. 484-5259 evenings; 432-3816.

For rent—furnished older home; three bedrooms and two in basement; two-car garage. Groat Estate, ten minutes to University. 18 June to 31 December. \$425, or \$325 and care for dog. 452-0270.

For rent—7 July-11 August. Two bedroom home, ten minutes to University. 433-3673.

For rent—four-bedroom; furnished; walking distance University. \$600 for 1 July to mid-August (including utilities). 436-1167.

Sub-letting—luxury one-bedroom apartment, seventeenth floor. Beautifully furnished. All amenities. Easy access to University, downtown. Single professional. Responsible tenant. 488-0692, residence; 429-7631, business.

For rent—three-bedroom condominium from 1 July. North Mill Woods. 462-7585 evenings.

One or two persons to share large older house with couple; three rooms open, including interesting garret with fireplace. Must like dogs. Available 1 June or earlier. Telephone Bruce or Felicity, 432-4104; 488-1308.

#### Accommodation wanted

Wanted—furnished three-four-bedroom home for visiting professor and family (two teen-age children). Will take possession 1 September 1977 through 30 August 1978. Prefer South Side near University. For a reference contact Dr. Robert Wilberg, Faculty of Physical Education, University of Alberta. Write to: Dr. Jack Leavitt, 3365 St. Patrick's Drive, Windsor, Ontario N9E 3H2. Writer and family require older four-bedroom home

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House wanted—Family requires a home with 1 September possession. Located in Windsor Park, Garneau, or Groat Estate. Prefer older two-three-storey with character. Telephone Dorothy Hamilton, 439-7371; 436-8509 Kellough Realty.

Quiet, responsible adult with neutered indoor cat would like to rent quiet furnished apartment (one bedroom preferred), 1 June—31 August (approximately) 1977. 432-4104; 488-1308.

Visiting scientist, wife, and infant require small furnished house or apartment to rent or sublease. September 1977 to May 1978 inclusive. Prefer near University. Telephone 432-3518 days.

#### Automobiles and accessories

1975 deluxe Volkswagen van in excellent condition. Air, water, refrigerator, stove, closet. Sleeps four. 435-1074 evenings.

For sale—soft top tent trailer with canopy. \$325. 433-6671.

1973 Toyota wagon; automatic, six-cylinder; very clean, reliable, economical. Peter Johnston, 432-2261 or 477-7322 evenings.

1971 Pinto. Low mileage, excellent condition. Simon, 432-2104 or 433-3070.

1976 Pinto four-cylinder. 7,000 miles. 487-1321 evenings.

1974 GMC ½-ton pickup. 465-7129 evenings.

For sale—1969 Vauxhall Viva, automatic, deluxe two-door; buckets. 34,400 miles. \$475. 439-0394.

For sale—1970 white Datsun 510; good running condition. \$600 or best offer. Telephone 435-6616 after 6 p.m.

1977 Ford E100, partially camperized; 13,000 miles. 488-5190 evenings.

Must sell, leaving province—1974 Fiat 128 Station-wagon. 1972 Honda 350. 465-5043.

#### Goods and services

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.

Antiques from England for sale. Tables, chairs, buffets, bookcases, stools, dolls, clocks, porcelain,

art-glass, commemoratives, Oriental porcelain, pictures, gifts, collectables. Mary Goulden Antiques, corner of 109A Avenue and 135 Street. Thursdays, Fridays, Saturdays, 10 to 5 p.m. 452-0397.

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Manufactured cedar-log buildings—homes, cottages, commercial. Telephone 466-9883 after 5 p.m.

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Selling—Minox C automatic subminiature camera with case and chain. \$175. Telephone 432-5394 days.

For sale—back lake lot sixty miles west. \$10,000. 433-6671.

Please give me a good home. I'm a two-year-old male registered Irish Setter. Offers. 998-2536.

Old refrigerator, \$35; green hide-a-bed chesterfield, \$65; Viking refrigerator, three years old, five feet high, twelve cubic feet, \$200; arm chair (leg broken), \$10; occasional chair, \$10; table-desk and chair, \$10; green shag oval rug, \$30. 433-5444, 6-8 p.m.

Camping trip to Maritimes, twenty-three days, \$495.

The Yukon and Alaska, twenty-two days, \$575 (includes ferry on Inside Passage). California, twenty-two days, \$490. Banff and Jasper, twelve days, \$219. Prices include meals and equipment.

For brochure, write to Canadian Camping Tours, 250 One Palliser Square, Calgary, T2G 0P6.

For sale—baby goods: carriage, stroller, back-pack, infant car-seat, bassinet, toys. 434-9702.

Aquariums—ten and fifty gallons, plus accessories. 465-7129 evenings.

University Student Painting. Experienced. Interior, exterior; commercial and residential. Free estimates. 434-4833.

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Typing. Reasonable rates. Mrs. Hlus, 484-2629.

Twenty-one-cubic-foot deluxe Westinghouse freezer, excellent condition, \$250. Large metal office desk with filing cabinet and chair, \$130. 489-7434; 488-9325.

Selling—12 x 9 tourist tent (sleeps four) with lantern and four brand new air mattresses. 432-3261. Would like to rent motorcycle for the summer.

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